UNITED STATES SAMUELSON RANCH QUADRANGLE DEPARTMENT OF THE INTERIOR MONTANA-POWDER RIVER CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) GEOLOGICAL SURVEY 4875 III NE (ELK RIDGE) 105°52′30″ 45°37′30″ 105°45′ 45°37′30″ R. 47 E. R. 48 E. 35 34 33 32 T. 2 S. OVERBURDEN ISOPACH-Showing thickness of over-T. 3 S. NOTE: Where no mining-ratio contour is shown in the outliers of Reserve Base coal, the mining-ratio value is BOUNDARY OF COAL 5 FEET OR MORE THICKless than 10. FAULT-Dashed where approximately located. U, up-MINING-RATIO CONTOUR-Number indicates cubic 10 11 12 To convert yds³/ton to m³/metric ton, multiply yds³/ton by 15 14 13 16 17 18 13 22 23 24 19 27 26 33 34 35 32 31 T. 3 S. T. 4 S. 11 Base map from U.S. Geological Survey, 1966 MONTANA UTM GRID AND 1966 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET QUADRANGLE LOCATION

COAL RESOURCE OCCURRENCE MAP OF THE SAMUELSON RANCH QUADRANGLE, POWDER RIVER COUNTY, MONTANA

BY COLORADO SCHOOL OF MINES RESEARCH INSTITUTE 1979

PLATE 11

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PLATE 11 OF 25

EXPLANATION

200 -

bed. Isopach interval 200 feet (61 m).

thrown side; D, downthrown side.

5 feet or more thick.

burden, in feet, from the surface to the top of the coal

Drawn along the outcrop of coal bed and/or the inferred contact between burned and unburned coal and/or the 5-foot coal isopach. Arrows point toward area of coal

yards of overburden per ton of recoverable coal by surface-mining methods. Contours shown only in areas suitable for surface mining within the stripping limit.

To convert feet to meters, multiply feet by 0.3048.

OPEN-FILE REPORT
This report has not been edited for conformity with U.S. Geological Survey editorial standards or stratigraphic nomenclature.

OVERBURDEN ISOPACH AND MINING-RATIO MAP OF THE PAWNEE COAL BED